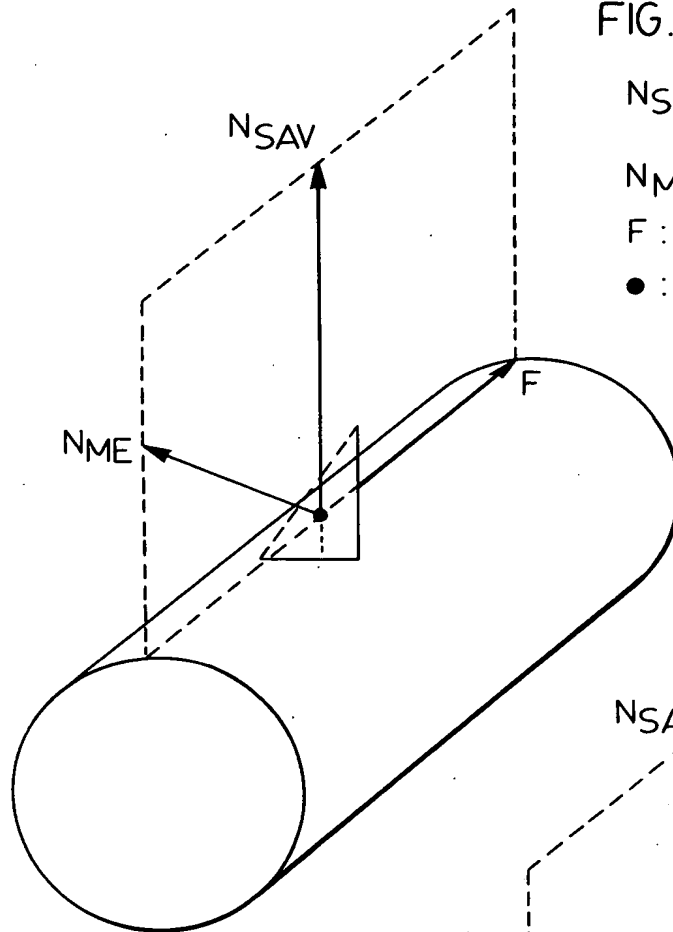


#4
 30 5 10
 30 5 10

FIG.1. (PRIOR ART)



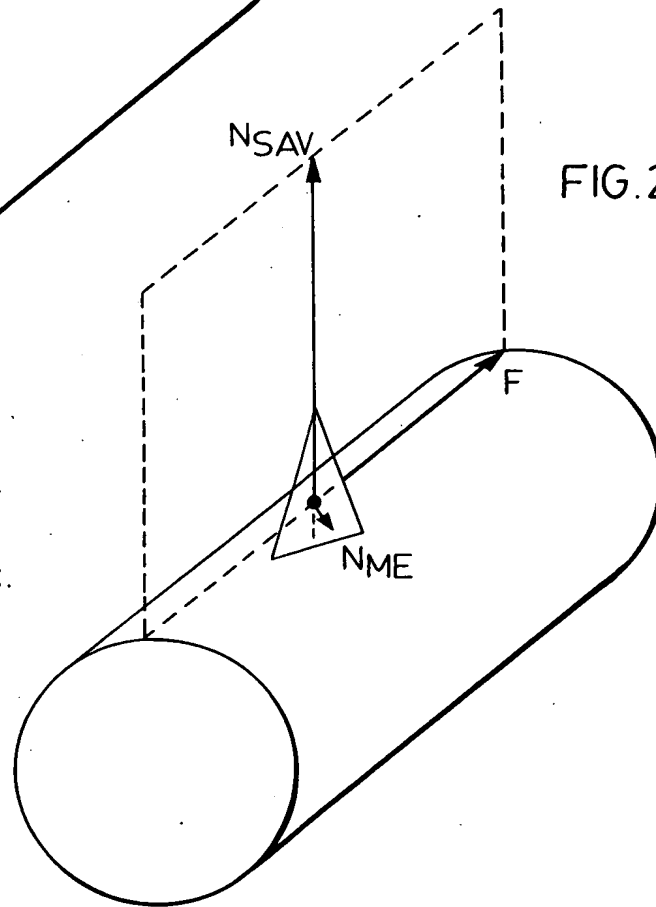
N_{SAV} : Normal to Surface
 Adjacent to a Vortex.

N_{ME} : Normal to Mixing Element.

F : Direction of fluid flow.

• : Centroid of mixing
 element.

FIG.2.



N_{SAV} : Normal to Surface
 Adjacent to a Vortex.

N_{MDS} : Normal to Mixing
 Device Surface.

F : Direction of fluid
 flow

• : Centroid of mixing
 device

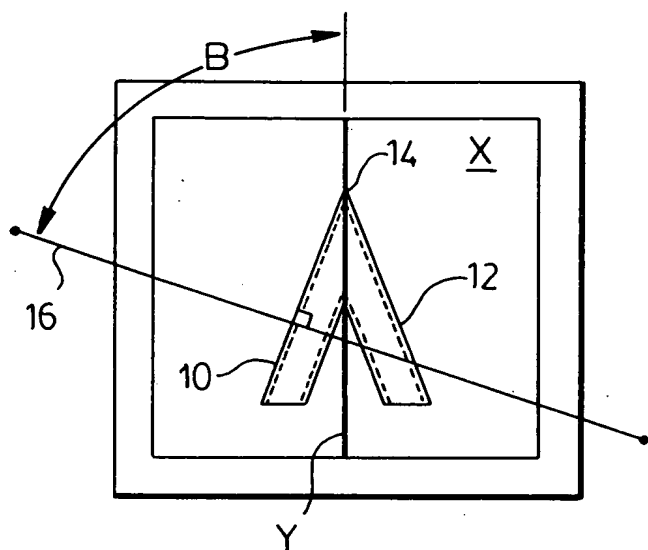


FIG. 3B.

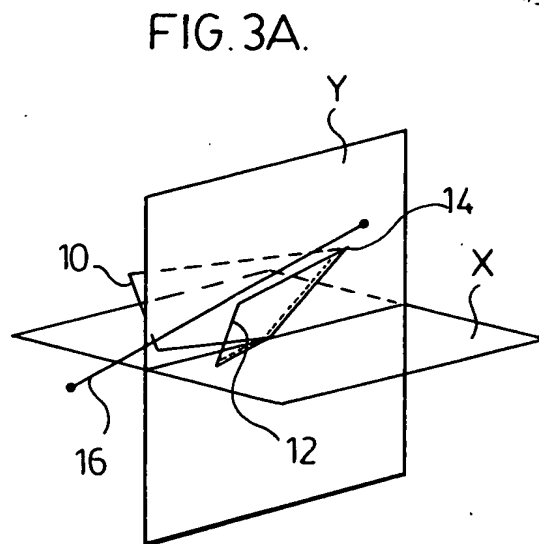


FIG. 3A.

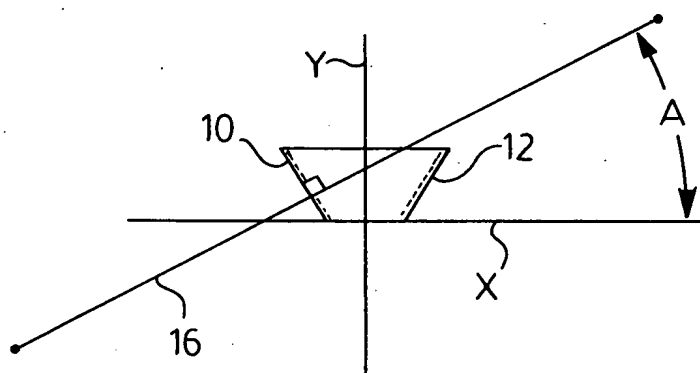


FIG. 3C.

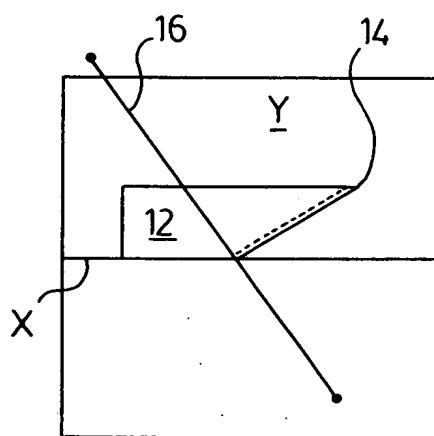


FIG. 3D.

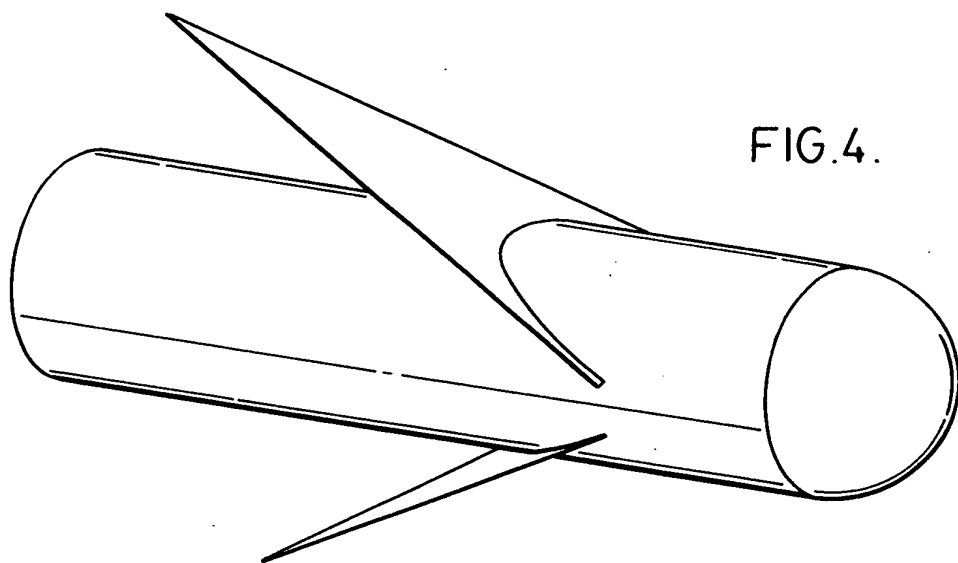


FIG. 4.

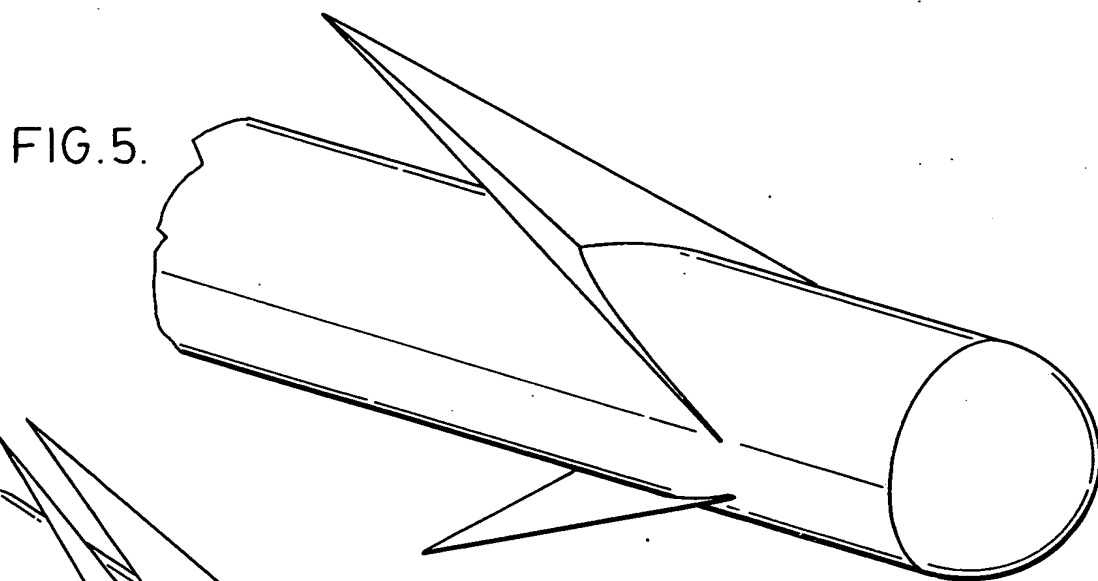


FIG. 5.

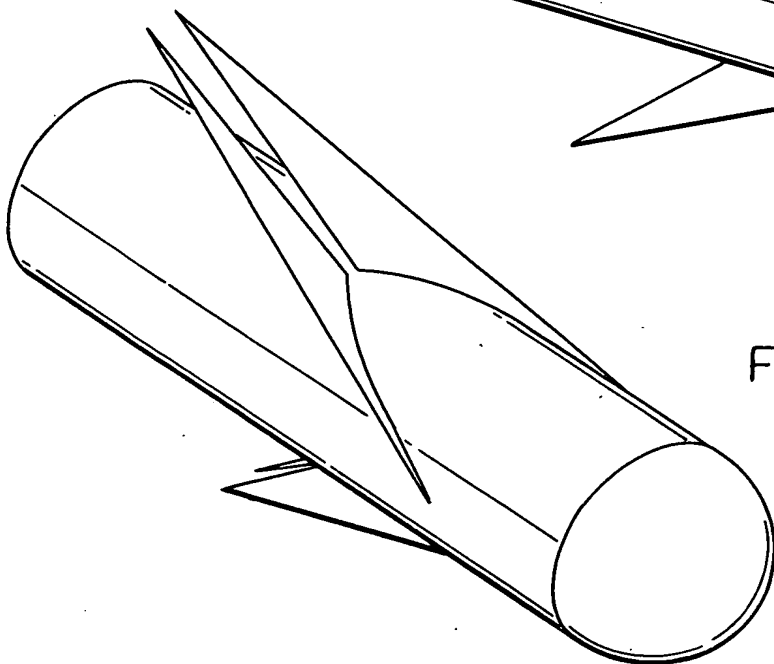


FIG. 6.

3,210

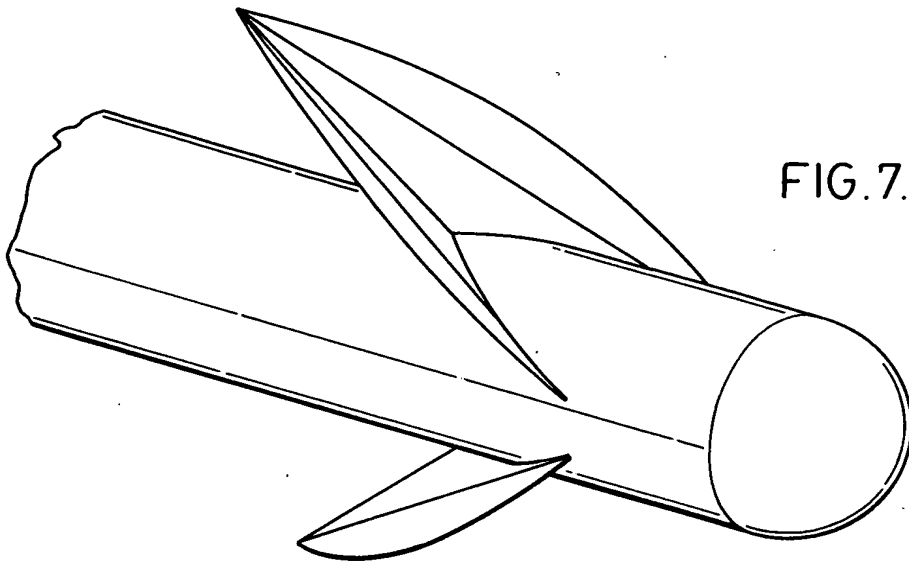


FIG. 7.

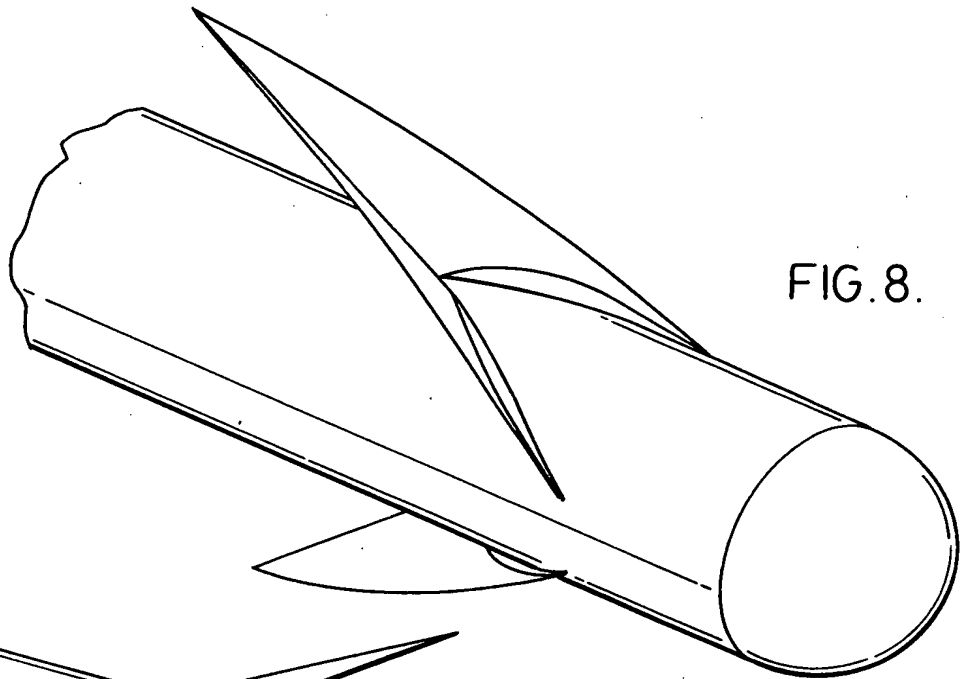


FIG. 8.

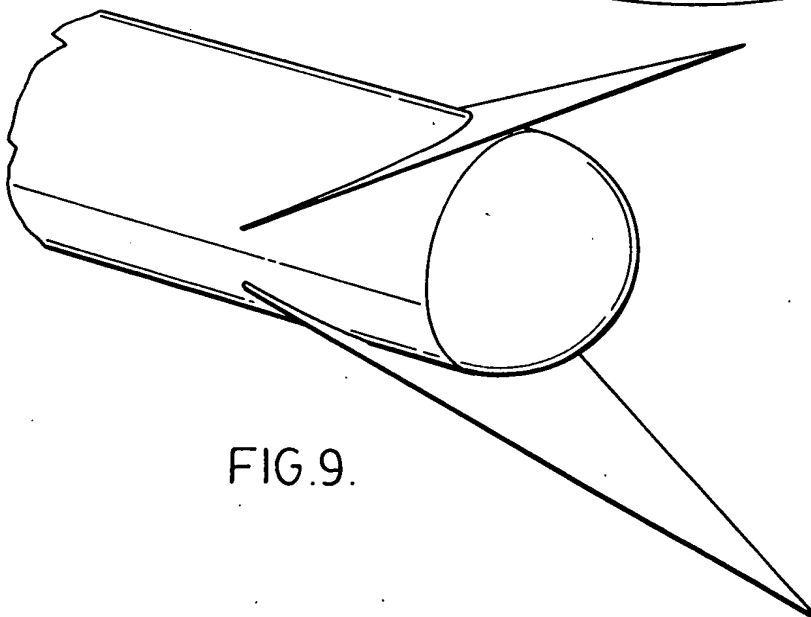


FIG. 9.

FIG.10.

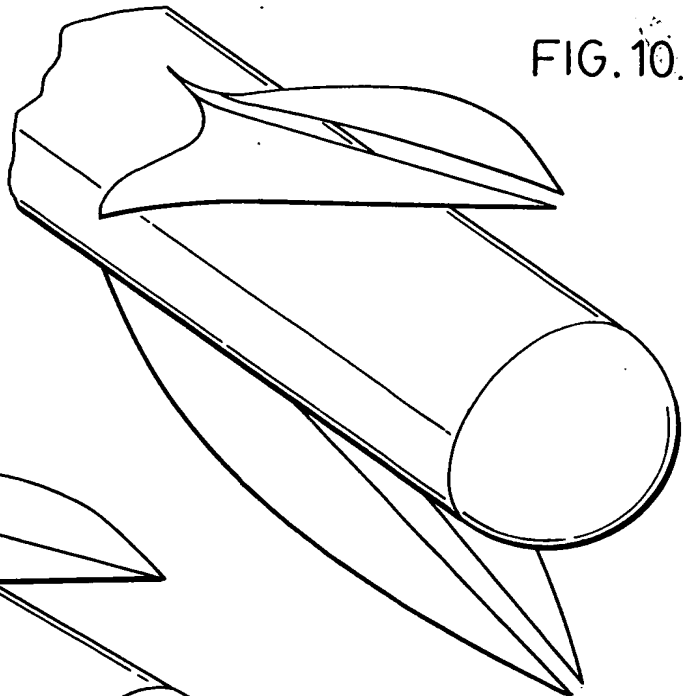


FIG.11.

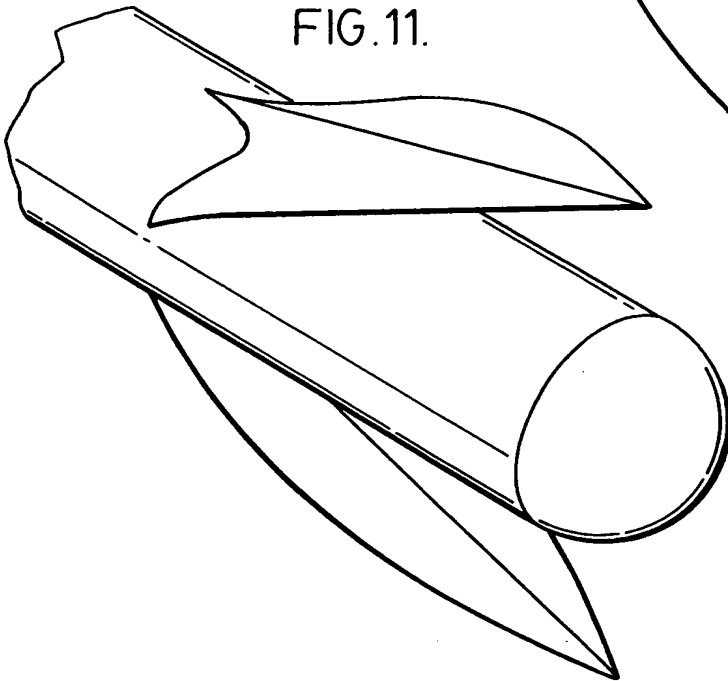
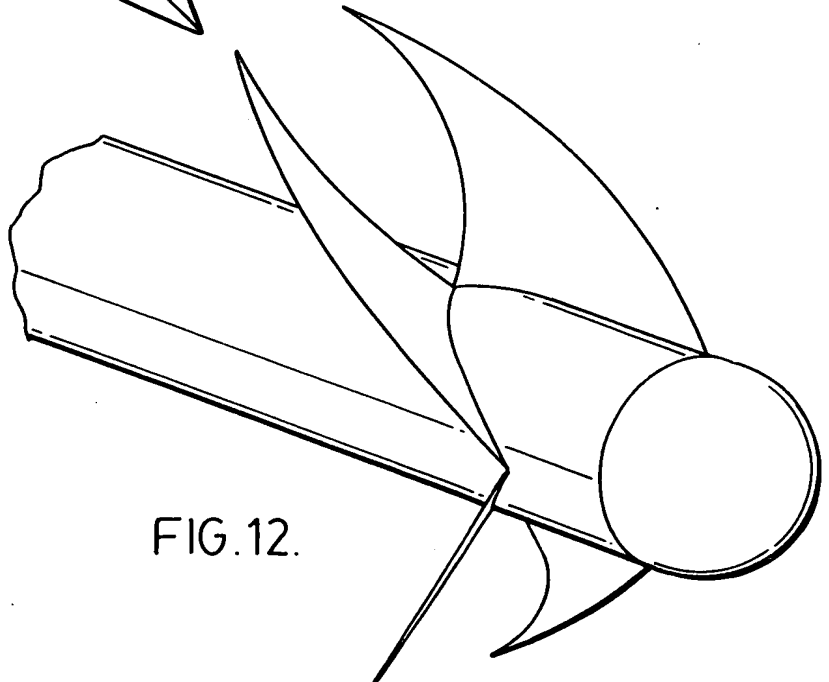


FIG.12.



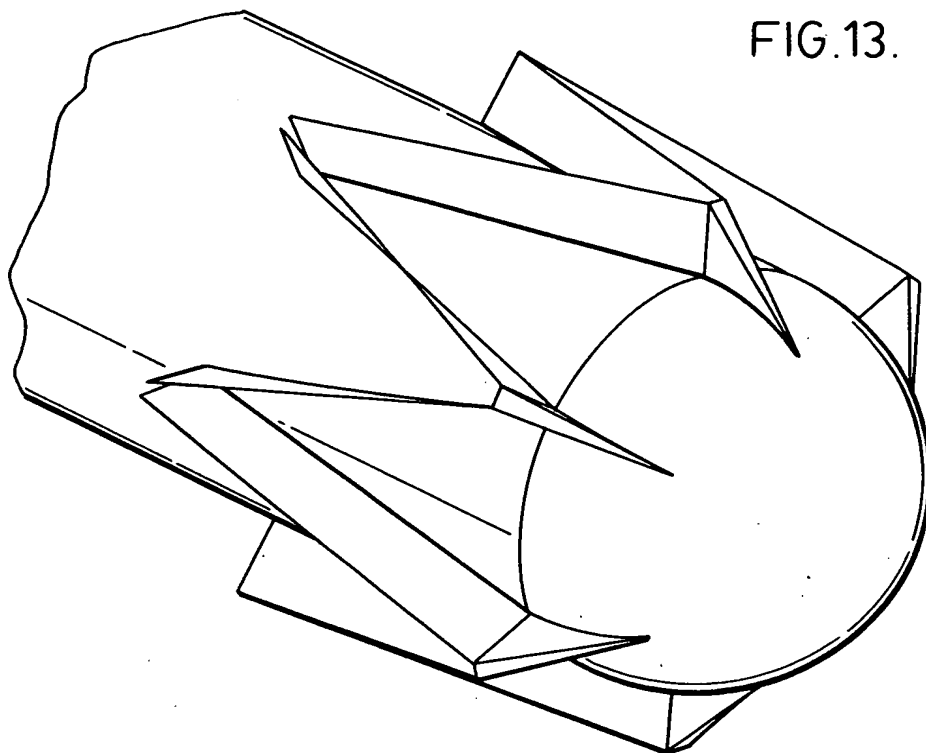


FIG. 13.

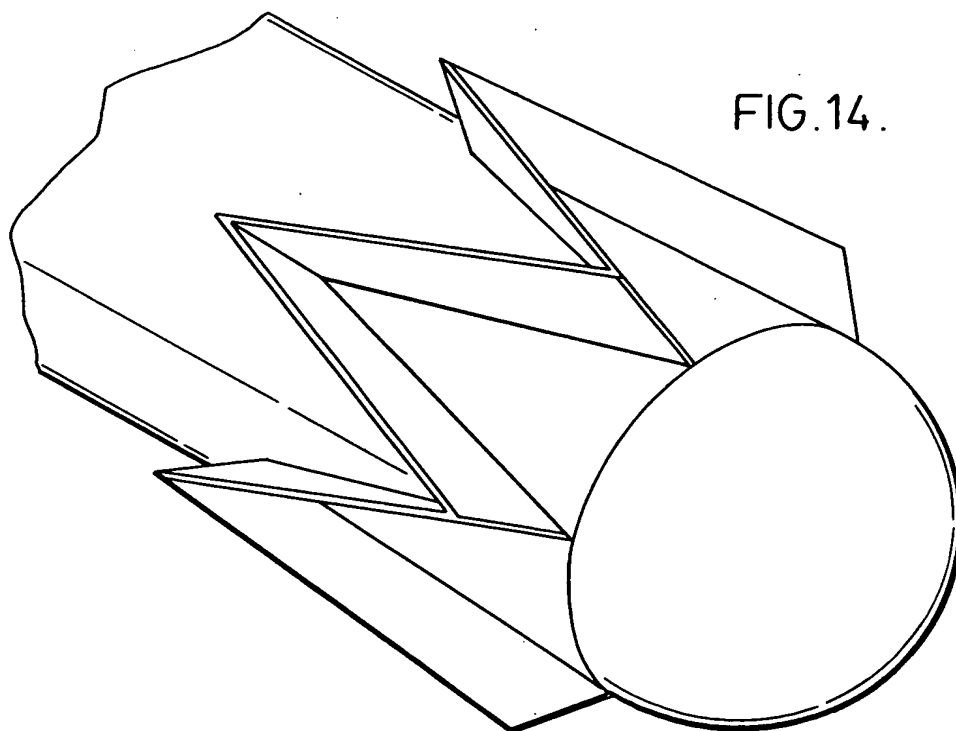


FIG. 14.

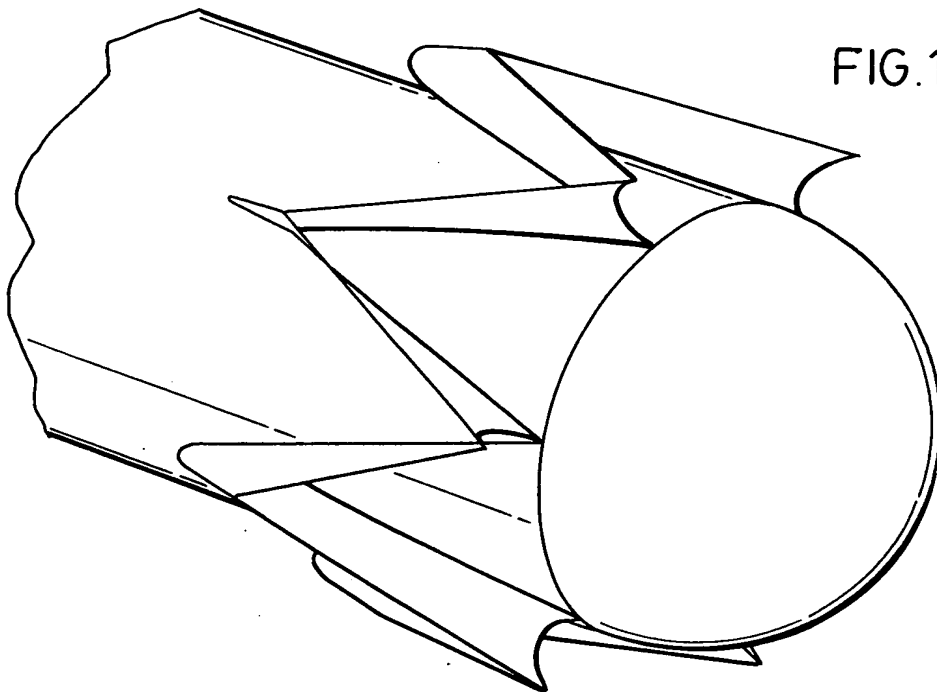


FIG. 15.

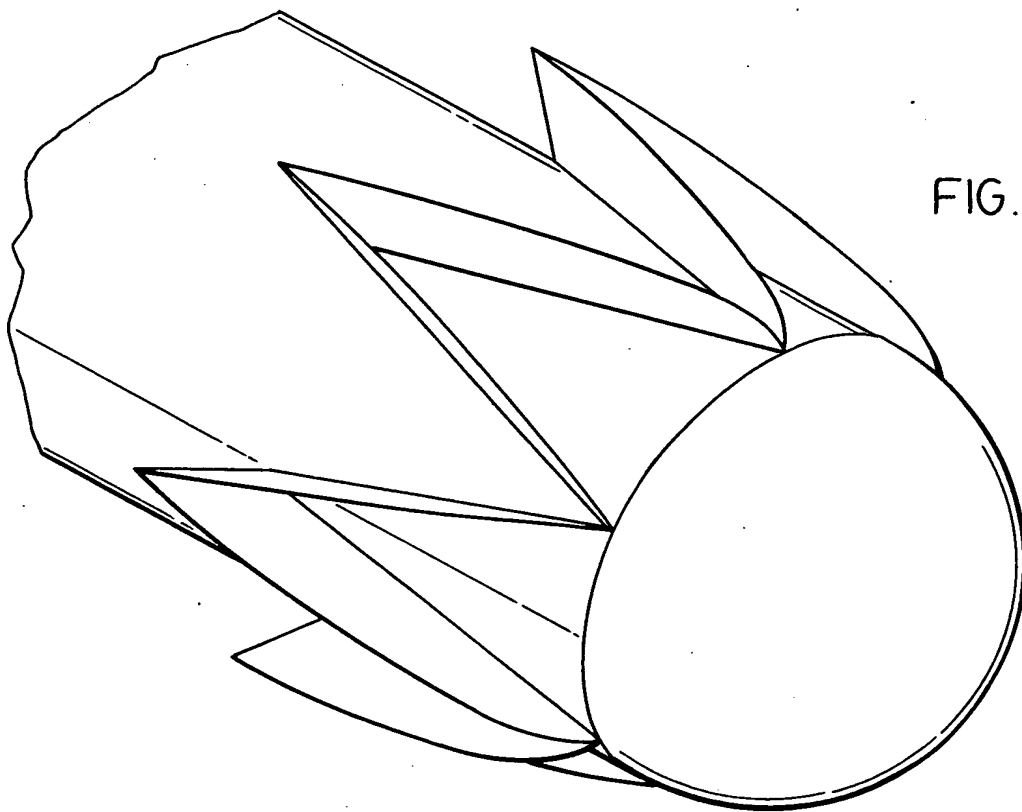


FIG. 16.

FIG.17.

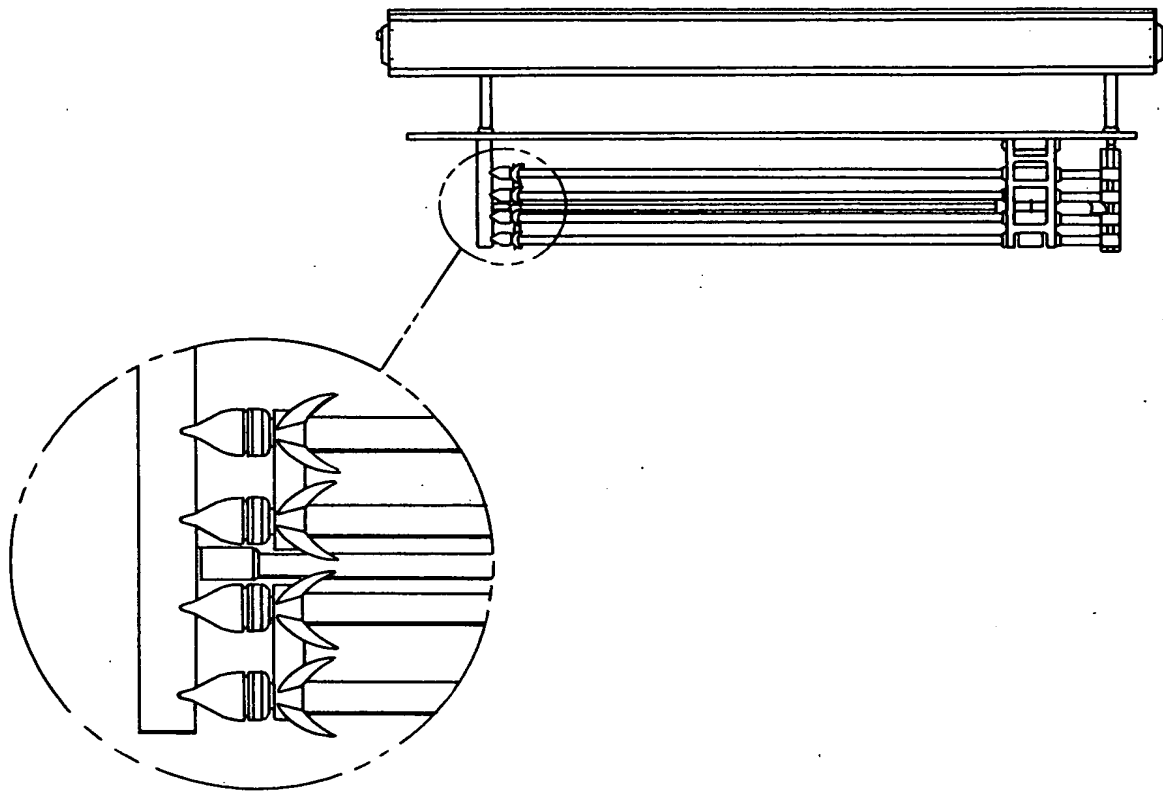


FIG.18A.

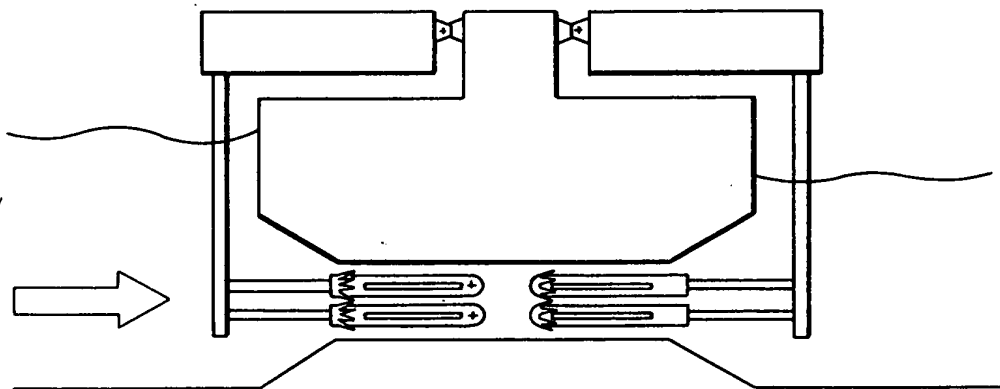


FIG.18B.

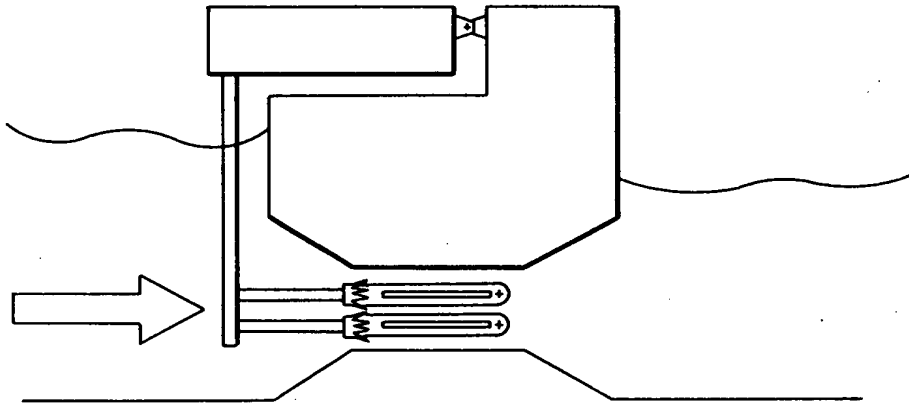


FIG.18C.

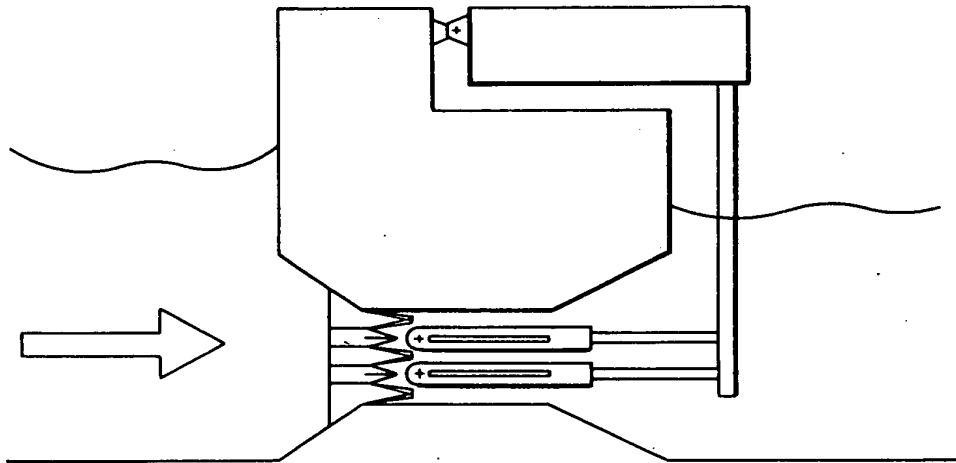
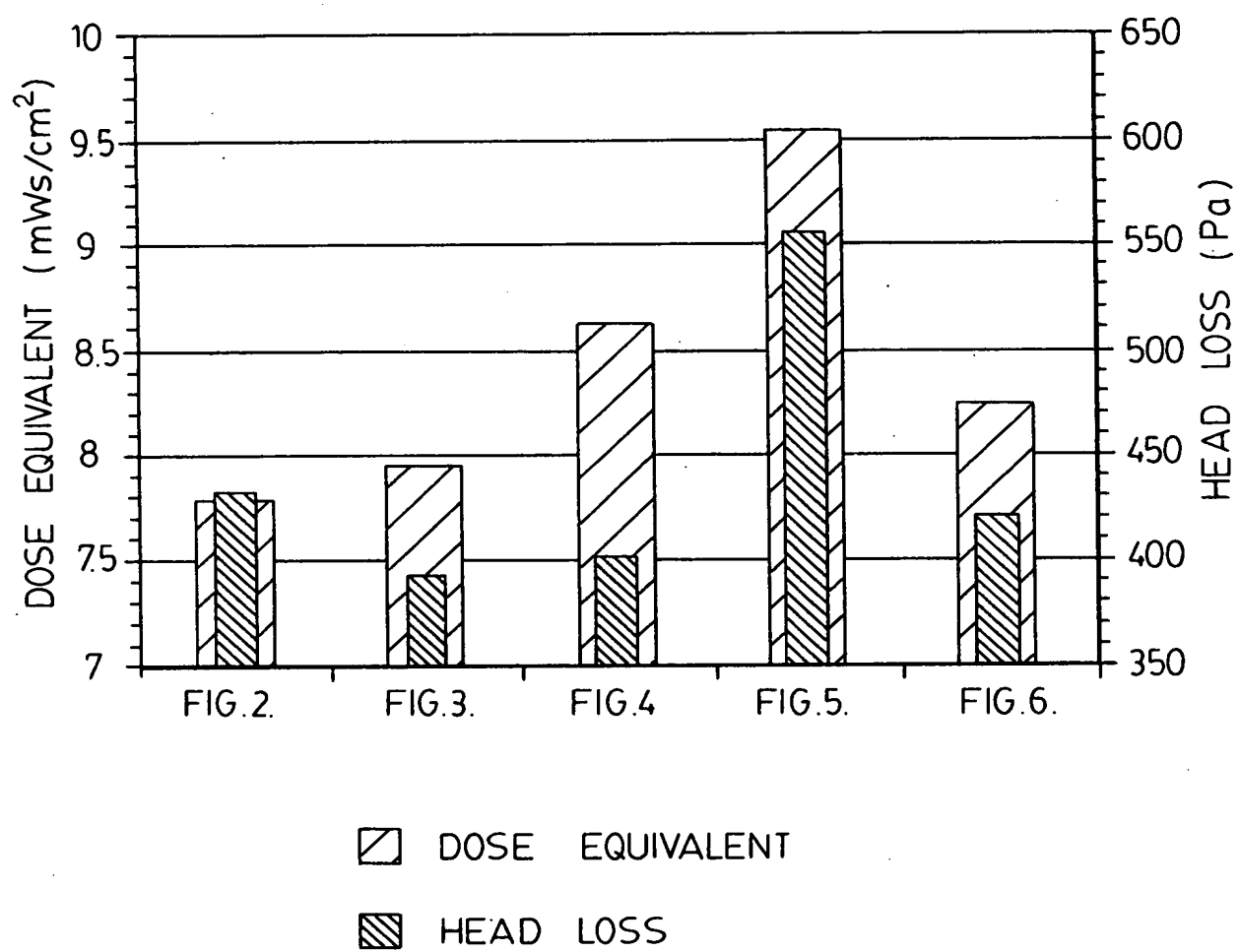


FIG. 19.



1970

FIG. 20.

